

## SEQUENCE LISTING

<110> NeXstar Pharmaceuticals, Inc.

<120> High Affinity TGFBeta Nucleic Acid Ligands and Inhibitors

<130> NEX87/PCT

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<150> 09/046,247

<151> 1998-03-23

<150> 08/458,424

<151> 1995-06-02

<150> 07/714,131

<151> 1991-06-10

<150> 07/931,473

<151> 1992-08-17

<150> 07/964,624

<151> 1992-10-21

<150> 08/117,991

<151> 1993-09-08

<150> 07/536,428

<151> 1990-06-11

<150> 09/363,939

<151> 1999-07-29

<150> 08/434,465

<151> 1995-05-04

<160> 216

<170> PatentIn Ver. 2.0

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<223> Feature N at positions 17-56 is A, C, G or T.

<400> 1

tcgggcgagt cgtctgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnccgc 60  
atcgtcctcc c 71

<210> 2

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<400> 2

taatacgact cactataggg aggacgatgc gg 32

<210> 3

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<400> 3

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<222> (1)..(88)

<223> Feature N at positions 33-72 is A, C, G or T.

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taatacgact cactataggg aggacgatgc ggnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
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<210> 5

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<222> (1)..(88)

<223> Feature N at positions 33-72 is A, C, G or T.

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attatgctga gtgatatccc tcctgctacg ccnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
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<222> (1)..(71)

<223> All pyrimidines are 2'F; feature N at positions  
16-55 is A, 2'-FC, G or 2'-FU.

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gggaggacga ugcggnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncagac 60  
gacucgcccg a 71

<210> 7

<211> 65

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<222> (1)..(65)

<223> Feature N at positions 16-49 is SEQ ID NO: 115 and A, C, G or T.

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cccga 65

<210> 8

<211> 82

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<222> (1)..(82)

<223> Feature N at positions 33-66 is SEQ ID NO: 115 and A, C, G or T.

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taatacgact cactataggg aggacgatgc ggnnnnnnnn nnnnnnnnnn nnnnnnnnn 60  
nnnnnncaga cgactcgccc ga 82

<210> 9

<211> 82

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 <223> All pyrimidines are 2'F; feature N at positions  
 16-49 is SEQ ID NO: 115 and A, 2'-FC, G or 2'-FU.

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 cccga 65

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<210> 17  
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<223> Bases at positions 5-15 are 2'-OMe.

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<223> Bases at positions 1-12 are 2'-OMe.

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14

<210> 21  
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<210> 22  
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gacucgcccg a 71

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gacucgcccg a 71

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<210> 27

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gacucgcccg g 71

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gacucgcccg a 71

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gacucgcccg a 71

<210> 31

<211> 71

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<223> All pyrimidines are 2'F.

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gacucgcccg a 71

<210> 32

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gacucgcccg g 71

<210> 33

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gacucgcccg a 71

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gacucgcccg a 71

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gggaggacga ugcggagcgg auuaauuagu cugacuucuu guccccagac gacucgcccg 60  
a 61

<210> 36  
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gacucgccc a 71

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gggaggacga ugcgguccuc uagcaagcag cuucucaucu uauuuuuccg ccccagacga 60  
cucgcccga 69

<210> 38  
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gacucgccc a 71

<210> 39  
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<223> All pyrimidines are 2'F.

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acucgcccga 70

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gacucgcccg a 71

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acuggccga 70

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gacugcccg a 71

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gacucgcccg a 71

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gacucgcccg a 71

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acucgcccga 70

<210> 47  
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gacucgcccga a 71

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<210> 55  
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gacucgcccg a 71

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gacucgcccg a 71

<210> 59

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<210> 60

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acucgcccga 70

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gacucgcccg a 71

<210> 63  
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<212> RNA

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<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 63

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gacucgccccg a 71

<210> 64

<211> 71

<212> RNA

<213> Artificial Sequence

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<222> (1)..(71)

<223> All pyrimidines are 2'F.

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gacucgccccg a 71

<210> 65

<211> 71

<212> RNA

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gacucgcccg a 71

<210> 66  
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gacucgcccg a 71

<210> 67  
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gacucgcccg a 71

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<400> 68

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gacucgccccg a

71

<210> 69

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<223> All pyrimidines are 2'F.

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<210> 70

<211> 71

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gacucgccccg a

71

<210> 71

<211> 60

<212> RNA

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<222> (1)..(60)

<223> All pyrimidines are 2'F.

<400> 71

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<210> 72

<211> 71

<212> RNA

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<222> (1)..(70)

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acucgcccga 70

<210> 74

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<222> (1)..(71)

<223> All pyrimidines are 2'F.

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gacucgcccg a 71

<210> 76

<211> 70

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acucgcccga 70

<210> 77  
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gacucgcccg a 71

<210> 78  
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acucgcccga 70

<210> 79  
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gacucgcccga a 71

<210> 80

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acucgcccga 70

<210> 81

<211> 71

<212> RNA

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gacucgcccg a 71

<210> 82  
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gacucgcccg a 71

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gacucgcccga a 71

<210> 87

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acucgcccga 70

<210> 88

<211> 70

<212> RNA

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<223> All pyrimidines are 2'F.

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acucgcccga 70

<210> 89

<211> 57

<212> RNA

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<222> (1)..(57)

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<400> 91

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<400> 92

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36

<210> 93

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34

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<400> 95  
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<400> 99

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33

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32

<210> 101

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<212> RNA

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<400> 102

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<210> 105

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<211> 33

<212> RNA

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<400> 109

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32

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<400> 110

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<210> 114

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<222> (1)..(36)

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<400> 114

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36

<210> 115

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<400> 115

ggagguuauu acagagucug uauagcugua cucc

34

<210> 116

<211> 37

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<222> (1)..(37)

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<400> 116

ggagguuauu acagagucug uauagcugua cucccca

37

<210> 117

<211> 30

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<213> Artificial Sequence

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<400> 117

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30

<210> 118

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33

<210> 119

<211> 32

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<400> 119

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32

<210> 120

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<212> RNA

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<400> 121

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<210> 122

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<400> 122

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Val	Arg	Gln	Leu	Tyr	Ile	Asp	Phe	Arg	Lys	Asp	Leu	Gly	Trp	Lys	Trp
		20						25					30		

Ile	His	Glu	Pro	Lys	Gly	Tyr	His	Ala	Asn	Phe	Cys	Leu	Gly	Pro	Cys
		35					40						45		

Pro	Tyr	Ile	Trp	Ser	Leu	Asp	Thr	Gln	Tyr	Ser	Lys
	50				55						60

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## Sequence

&lt;400&gt; 123

Ala Leu Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys  
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Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp  
 20 25 30

Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys  
 35 40 45

Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg  
 50 55 60

&lt;210&gt; 124

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
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&lt;400&gt; 124

Ala Leu Asp Thr Asn Tyr Cys Phe Arg Asn Leu Glu Glu Asn Cys Cys  
 1 5 10 15

Val Arg Pro Leu Tyr Ile Asp Phe Arg Gln Asp Leu Gly Trp Lys Trp  
 20 25 30

Val His Glu Pro Lys Gly Tyr Tyr Ala Asn Phe Cys Ser Gly Pro Cys  
 35 40 45

Pro Tyr Leu Arg Ser Ala Asp Thr Thr His Ser Thr  
 50 55 60

&lt;210&gt; 125

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
 Sequence

&lt;400&gt; 125

Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro  
 1 5 10 15

Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val  
 20 25 30

Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val Arg Ser  
 35 40 45

Cys Lys Cys Ser  
 50

&lt;210&gt; 126

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Sequence

&lt;400&gt; 126

Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro  
 1 5 10 15

Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile  
 20 25 30

Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser Asn Met Ile Val Lys Ser  
 35 40 45

Cys Lys Cys Ser  
 50

&lt;210&gt; 127

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
 Sequence

&lt;400&gt; 127

Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala Ser Ala Ser Pro

1                      5                      10                      15  
 Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Val  
                     20                      25                      30  
 Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met Val Val Lys Ser  
                     35                      40                      45  
 Cys Lys Cys Ser  
                     50

<210> 128

<211> 58

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(58)

<223> All pyrimidines are 2'F.

<400> 128

ggaaguaacg uuguaguaaa auucguucuc ucggcauuug gccagacgac ucgcccga 58

<210> 129

<211> 57

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(57)

<223> All pyrimidines are 2'F.

<400> 129

gggaggacga ugcggaagua acguuguagu aaaaauucguu cucucggcau uuggcca 57

<210> 130

<211> 44



<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(44)  
<223> All pyrimidines are 2'F.

<400> 130  
ggaaguaacg uuguaguaaa auucguucuc ucggcauuug gccca

44

<210> 131  
<211> 38  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(38)  
<223> All pyrimidines are 2'F.

<400> 131  
gggagggauc ggaaguaacg uuguaguaaa auuccuuc

38

<210> 132  
<211> 35  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(35)  
<223> All pyrimidines are 2'F.

<400> 132  
gggagggauc ggaaguaacg uuguaguaaa auucc

35

<210> 133  
<211> 32  
<212> RNA  
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<220>  
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Sequence

<220>  
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<222> (1)..(32)  
<223> All pyrimidines are 2'F.

<400> 133  
gggagggaugc ggaaguaacg uuguaguaaa au 32

<210> 134  
<211> 33  
<212> RNA  
<213> Artificial Sequence

<220>  
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Sequence

<220>  
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<222> (1)..(33)  
<223> All pyrimidines are 2'F.

<400> 134  
gggagggaugc ggaaguaacg uuguaguucc uuc 33

<210> 135  
<211> 27  
<212> RNA  
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<220>  
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Sequence

<220>  
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<222> (1)..(27)  
<223> All pyrimidines are 2'F.

<400> 135  
gggagggaugc ggaaguaacg uuguagu 27

<210> 136  
<211> 20  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
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<222> (1)..(20)  
<223> All pyrimidines are 2'F.

<400> 136  
gggaggagua acguuguagu 20

<210> 137  
<211> 58  
<212> RNA  
<213> Artificial Sequence

<220>  
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Sequence

<220>  
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<222> (1)..(58)  
<223> All pyrimidines are 2'F.

<400> 137  
ggcguuguuu agucguaugu auauacuaag uccgcuuguc cccagacgac ucgcccga 58

<210> 138  
<211> 57  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(57)

<223> All pyrimidines are 2'F.

<400> 138

gggaggacga ugcggcguug uuugagucgua uguauauacu aaguccgcuu gucccca 57

<210> 139

<211> 44

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(44)

<223> All pyrimidines are 2'F.

<400> 139

ggcguuguuu agucguaugu auauacuaag uccgcuuguc ccca 44

<210> 140

<211> 44

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(44)

<223> All pyrimidines are 2'F.

<400> 140

ggggagcggc guuguuuagu cguauguaua uacuaagucc gcuu 44

<210> 141

<211> 29

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

## Sequence

&lt;220&gt;

&lt;221&gt; modified\_base

&lt;222&gt; (1)..(29)

&lt;223&gt; All pyrimidines are 2'F.

&lt;400&gt; 141

ggggagcggc guuguugaaa aguccgcuu

29

&lt;210&gt; 142

&lt;211&gt; 38

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Sequence

&lt;220&gt;

&lt;221&gt; modified\_base

&lt;222&gt; (1)..(38)

&lt;223&gt; All pyrimidines are 2'F.

&lt;400&gt; 142

ggggagcggc guuguuucgu auguauauaa guccgcuu

38

&lt;210&gt; 143

&lt;211&gt; 33

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
Sequence

&lt;220&gt;

&lt;221&gt; modified\_base

&lt;222&gt; (1)..(33)

&lt;223&gt; All pyrimidines are 2'F.

&lt;400&gt; 143

ggggagcggc guuguuuaug uauaaguccg cuu

33

&lt;210&gt; 144

&lt;211&gt; 42

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

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<222> (1)..(42)

<223> All pyrimidines are 2'F.

<400> 144

ggggagcggc guuguuuagu cguauguaua uacuaagucc gc 42

<210> 145

<211> 38

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(38)

<223> All pyrimidines are 2'F.

<400> 145

ggggagcggc guuguuuagu cguauguaua uacuaagu 38

<210> 146

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

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<220>

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 146

gggaggacga ugcgggguga uuauuacaga guauguauag cuguaccccc agacgacucg 60  
cccga 65

<210> 147  
<211> 64  
<212> RNA  
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<220>  
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Sequence

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<222> (1)..(64)  
<223> All pyrimidines are 2'F.

<400> 147  
gggaggacga ugcggaggcg uuauuagaga gucuguauag cucuagcccc agacgacucg 60  
ccga 64

<210> 148  
<211> 65  
<212> RNA  
<213> Artificial Sequence

<220>  
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Sequence

<220>  
<221> modified\_base  
<222> (1)..(65)  
<223> All pyrimidines are 2'F.

<400> 148  
gggaggacga ugcggggagg guauuacaga guauguauag cuguacuccc agacgacucg 60  
cccga 65

<210> 149  
<211> 65  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 149

gggaggacga ugcggggagg uuauuauaga gucuguauag cuauaccccc agacgacucg 60  
cccga 65

<210> 150

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 150

gggaggacga ugcggggagg uuauuauaga gucugcauag cuauaccccc agacgacucg 60  
cccga 65

<210> 151

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

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Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 151

gggaggacga ugcggugaga guauuacgga guauguauag ccguaccccc agacgacucg 60  
cccga 65

<210> 152

<211> 65

<212> RNA

<213> Artificial Sequence

<220>



<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 152

gggaggacga ugcgggggca uuauuucaga gucuguauag cuguagcccc agacgacucg 60  
cccga 65

<210> 153

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 153

gggaggacga ugcgggcgga uuauucacaga guauguauag cugugccgcc agacgacucg 60  
cccga 65

<210> 154

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 154

gggaggacga ugcgguguga auauuagaga gucuguauag cucuaccccc agacgacucg 60  
cccga 65

<210> 155  
<211> 65  
<212> RNA  
<213> Artificial Sequence

<220>  
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Sequence

<220>  
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<222> (1)..(65)  
<223> All pyrimidines are 2'F.

<400> 155  
gggaggacga ugcggcgga uuauuacuga gucuguauag caguaccccc agacgacucg 60  
cccga 65

<210> 156  
<211> 65  
<212> RNA  
<213> Artificial Sequence

<220>  
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Sequence

<220>  
<221> modified\_base  
<222> (1)..(65)  
<223> All pyrimidines are 2'F.

<400> 156  
gggaggacga ugcgggugga auauuacgga gucuguauag ccguacuccc agacgacucg 60  
cccga 65

<210> 157  
<211> 65  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 157

gggaggacga ugcgggggga cuauuaguga gucuguauag cacuaccccc agacgacucg 60  
cccga 65

<210> 158

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 158

gggaggacga ugcgggggga uuauuacagc gucuguauau cuguaccccc agacgacucg 60  
cccga 65

<210> 159

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
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<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 159

gggaggacga ugcggggcagg uuauuacaga gucuguauag cuguacugcc agacgacucg 60  
cccga 65

<210> 160

<211> 65

<212> RNA

<213> Artificial Sequence

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<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 160

gggaggacga ugcgggguag auaucacuga gucuguauag cagugucucc agacgacucg 60  
cccgga 65

<210> 161

<211> 65

<212> RNA

<213> Artificial Sequence

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<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 161

gggaggacga ugcggaggga uuauuacaga gucuguauag cuguaccccc agacgacucg 60  
cccgga 65

<210> 162

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 162

gggaggacga ugcgggugga uuauuacaga gucuguauag cuguaccccc agacgacucg 60  
cccgga 65

<210> 163  
<211> 65  
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<220>  
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<222> (1)..(65)  
<223> All pyrimidines are 2'F.

<400> 163  
gggaggacga ugcgggggcg uuauuacaga gucuguauag cuguagcccc agacgacucg 60  
cccga 65

<210> 164  
<211> 65  
<212> RNA  
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<220>  
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Sequence

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<221> modified\_base  
<222> (1)..(65)  
<223> All pyrimidines are 2'F.

<400> 164  
gggaggacga ugcgggggugg uuauuacaca guauguauag guguaccccc agacgacucg 60  
cccga 65

<210> 165  
<211> 65  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 165

gggaggacga ugcggaggga aaauuacaga guauguauag cuguaccccc agacgacucg 60  
cccga 65

<210> 166

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 166

gggaggacga ugcggggagu aaauuacagc gucuguauau cuguagcccc agacgacucg 60  
cccga 65

<210> 167

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 167

gggaggacga ugcggugagg aaauuacaga gucuguauag cuguacuccc agacgacucg 60  
cccga 65

<210> 168

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 168

gggaggacga ugcggggugg uuauuagaga gucuguauag cucuacgcc agacgacucg 60  
cccga 65

<210> 169

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 169

gggaggacga ugcgggggga guauuaaaga gucuguauag cuuuaccccc agacgacucg 60  
cccga 65

<210> 170

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 170

gggaggacga ugcggggagg auauuauaga gucuguauag cuauaccccc agacgacucg 60  
cccga 65

<210> 171  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a's and g's at positions  
1-5, 8, 11, 13-16, 20, 22, 24-25, 28 and 30 are  
2'-OCH<sub>3</sub>; linkage at positions 34 and 35 is 3'-3'.

<400> 171  
ggagguuauu acagagucug uauagcugua cucc

34

<210> 172  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a's and g's at positions  
11, 13-16, 20, 22, 24-25, 28 and 30 are 2'OCH<sub>3</sub>;  
linkage at positions 34 and 35 is 3'-3'.

<400> 172  
ggagguuauu acagagucug uauagcugua cucc

34

<210> 173  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>



<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a's and g's at positions  
1-4 are 2'OCH3; linkage at positions 34 and 35 is  
3'-3'.

<400> 173  
ggagguuauu acagagucug uauagcugua cucc 34

<210> 174  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a's and g's at positions  
5, 8, and 11 are 2'OCH3; linkage at positions 34  
and 35 is 3'-3'.

<400> 174  
ggagguuauu acagagucug uauagcugua cucc 34

<210> 175  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a' and g's at positions  
13-16 are 2'-OCH3; linkage at positions 34 and 35  
is 3'-3'.

<400> 175  
ggagguuauu acagagucug uauagcugua cucc 34

<210> 176

<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions  
20, 22 and 24 are 2'-OCH<sub>3</sub>; linkage at positions 34  
and 35 is 3'-3'.

<400> 176

ggagguuauu acagagucug uauagcugua cucc

34

<210> 177

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions  
25, 28 and 30 are 2'-OCH<sub>3</sub>; linkage at positions 34  
and 35 is 3'-3'.

<400> 177

ggagguuauu acagagucug uauagcugua cucc

34

<210> 178

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; g at position 20 is  
2'-OCH<sub>3</sub>; linkage at positions 34 and 35 is 3'-3'.

<400> 178

ggagguuauu acagagucug uauagcugua cucc

34

<210> 179

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a at position 22 is  
2'-OCH<sub>3</sub>; linkage at positions 34 and 35 is 3'-3'.

<400> 179

ggagguuauu acagagucug uauagcugua cucc

34

<210> 180

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a at position 24 is  
2'-OCH<sub>3</sub>; linkage at positions 34 and 35 is 3'-3'.

<400> 180

ggagguuauu acagagucug uauagcugua cucc

34

<210> 181

<211> 34

<212> RNA

<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Sequence  
  
<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a's and g's at positions 1-5, 8, 11, 25 and 30 are 2'-OCH<sub>3</sub>; linkage at positions 34 and 35 is 3'-3'.

<400> 181  
ggagguuauu acagagucug uauagcugua cucc

34

<210> 182  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Sequence

<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a's and g's at positions 1-5, 8, 11, 13-16, 24-25, 28 and 30 are 2'-OCH<sub>3</sub>; linkage at positions 34 and 35 is 3'-3'.

<400> 182  
ggagguuauu acagagucug uauagcugua cucc

34

<210> 183  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Sequence

<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a's and g's at positions 1-5, 8, 11, 13-16, 20, 24-25, 28 and 30 are 2'-OCH<sub>3</sub>; linkage at positions 34 and 35 is 3'-3'.

<400> 183  
ggagguuauu acagagucug uauagcugua cucc 34

<210> 184  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a's and g's at positions  
1-5, 8, 11, 13-16, 25, 28 and 30 are 2'-OCH<sub>3</sub>;  
linkage at positions 34 and 35 is 3'-3'.

<400> 184  
ggagguuauu acagagucug uauagcugua cucc 34

<210> 185  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a's and g's at positions  
1-5, 11, 13-16, 25, 28, and 30 are 2'-OCH<sub>3</sub>;  
linkage at positions 34 and 35 is 3'-3'.

<400> 185  
ggagguuauu acagagucug uauagcugua cucc 34

<210> 186  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions 1-4, 13-16, 25, 28 and 30 are 2'-OCH<sub>3</sub>; linkage at positions 34 and 35 is 3'-3'.

<400> 186

ggagguuauu acagagucug uauagcugua cucc

34

<210> 187

<211> 33

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(33)

<223> All pyrimidines are 2'F; a's and g's at positions 1-5, 10, 12-15 24, 27 and 29 are 2'-OCH<sub>3</sub>; linkage at positions 33 and 34 is 3'-3'.

<400> 187

ggagauauua cagagucugu auagcuguac ucc

33

<210> 188

<211> 32

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified\_base

<222> (1)..(32)

<223> All pyrimidines are 2'F; a's and g's at positions 1-4, 10, 12-15, 24, 27 and 29 are 2'-OCH<sub>3</sub>; linkage at positions 32 and 33 is 3'-3'.

<400> 188  
gggguuauua cagagucugu auagcuguac cc 32

<210> 189  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; linkage at positions 34  
and 35 is 3'-3'.

<400> 189  
ugugaauauu agagagucug uauagcucua cccc 34

<210> 190  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>  
<221> modified\_base  
<222> (1)..(34)  
<223> All pyrimidines are 2'F; a's and g's at positions  
2, 4-5, 8, 11, 13-16, 24-25 and 30 are 2'-OCH<sub>3</sub>;  
linkage at positons 34 and 35 is 3'-3'.

<400> 190  
ugugaauauu agagagucug uauagcucua cccc 34

<210> 191  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions  
2, 4-6, 8, 11-16, 20, 24-25, and 30 are 2'-OCH<sub>3</sub>;  
linkage at positions 34 and 35 is 3'-3'.

<400> 191

ugugaauauu agagagucug uauagcucua cccc

34

<210> 192

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions  
2, 4, 11, 13-16, 25 and 30 are 2'-OCH<sub>3</sub>; linkage at  
positions 34 and 35 is 3'-3'.

<400> 192

ugugaauauu agagagucug uauagcucua cccc

34

<210> 193

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<220>

<221> modified\_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions  
2, 4-6, 11-16, 25 and 30 are 2'-OCH<sub>3</sub>; linkage at  
positions 34 and 35 is 3'-3'.

<400> 193

ugugaauauu agagagucug uauagcucua cccc

34



<210> 194  
<211> 42  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 1-3 and 5 are 2'-OMe.

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 194  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 195  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 12 and 16-18 are 2'OMe.

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 195  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 196  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 21, 23-24 and 28 are  
2'-OMe.

<220>  
<223> Description of Artificial Sequence: Synthetic

## Sequence

<400> 196  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 197  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 30-31, 38 and 42 are  
2'-OMe.

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 197  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 198  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 1, 21, 23-24 and 28 are  
2'-OMe.

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 198  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 199  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base

<222> (1)..(42)

<223> A's and g's at positions 2, 21, 23-24 and 28 are  
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 199

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 200

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (1)..(42)

<223> A's and g's at positions 3, 21, 23-24 and 28 are  
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 200

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 201

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (1)..(42)

<223> A's and g's at positions 5, 21, 23-24 and 28 are  
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 201

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 202

<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 12, 21, 23-24 and 28 are  
2'-OMe.

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 202  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 203  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 16, 21, 23-24 and 28 are  
2'-OMe.

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 203  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 204  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 17, 21, 23-24 and 28 are  
2'-OMe.

<220>  
<223> Description of Artificial Sequence: Synthetic

## Sequence

<400> 204  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 205  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 18, 21, 23-24, and 28 are  
2'-OMe.

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 205  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 206  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 21, 23-24, 28 and 30 are  
2'-OMe.

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 206  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 207  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base

<222> (1)..(42)

<223> A's and g's at positions 21, 23-24, 28 and 31 are  
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 207

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 208

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (1)..(42)

<223> A's and g's at positions 21, 23-24, 28 and 38 are  
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 208

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 209

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (1)..(42)

<223> A's and g's at positions 21, 23-24, 28 and 42 are  
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 209

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 210

<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 1-3, 16-18, 21, 23-24,  
28, 30-31 and 42 are 2'-OMe; linkage at positions  
42 and 43 is 3'-3'.

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 210  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 211  
<211> 42  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(42)  
<223> A's and g's at positions 1-3, 16-18, 21, 23-24,  
28, 30 and 42 are 2'-OMe; linkage at positions 42  
and 43 is 3'-3'.

<220>  
<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 211  
gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 212  
<211> 41  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (1)..(41)  
<223> A's and g's at positions 1-3, 16-18, 21, 23-24, 28  
and 30-31 are 2'-OMe; linkage at positions 41 and  
42 are 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 212

gggugccuuu ugccuagguu gugauuugua accuucugcc c

41

<210> 213

<211> 37

<212> RNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (1)..(37)

<223> A's and g's at positions 1-3, 16-18, 21, 23, 25-26 and 37 are 2'-OMe; linkage at positions 37 and 38 is 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 213

gggugccuuu ugccuagguu guguaaccuu cugccca

37

<210> 214

<211> 35

<212> RNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (1)..(35)

<223> A's and g's at positions 1-3, 16-18, 21, 23-24 and 35 are 2'-OMe; linkage at positions 35 and 36 is 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 214

gggugccuuu ugccuagguu guaaccuucu gccca

35

<210> 215

<211> 33



<212> RNA

<213> Artificial Sequence

<220>

<221> modified\_base

<222> (1)..(33)

<223> A's and g's at positions 1-3, 16-18, 21-22, and 33  
are 2'-OMe; linkage at positions 33 and 34 is  
3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 215

gggugccuuu ugccuagguu aaccuucugc cca

33

<210> 216

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Sequence

<400> 216

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42